Format No: CP/TF/01

TEST REPORT OF PHYSICAL REQUIREMENTS OF BRICKS

Lab ID	:	CP-2019-06-17-17 **Date: 20-12-18**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Karaga Mantapa(Ground Floor) and Ramp to Karaga Mantapa at Yelahanka Lake in Ward No:01 of Yelahanka Sub Division.
Agency	:	Sri Sai Manjunath Enterprises Prop. Mahesh.B P, No:45, Hunasamaranahalli, Bangalore North, Bangalore.
Customer's Reference	:	EE(YNK.D)E-PMT-23/W.O/000087/2018-19
Source of sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	14-12-18
Identification Mark on Brick	:	Wire Cut Brick
Reference to BIS codes	:	IS 1077 : 1992(RA 2011) Common Burnt Clay Building Bricks-Specification IS 3495 (Part 1 to 3) : 1992(RA 2011) Method of Tests Burnt Clay Building Bricks Part 1:Determination of Compressive Strength, (Cl 4.2.3) Part 2:Determination of Water Absorption,(Cl 4.1.3) Part 3: Determination of Efflorescence, (Cl 4)
Date of test	:	14-12-18

COMPRESSIVE STRENGTH

Sl.No.	Length (mm)	Breadth (mm)	Area (mm^2)	Failure Load (KN)	Compressive strength of individual bricks (N/mm^2)	Acceptablity as per IS 1077:1992, Clause 7.1
1	228.13	109.98	25090	206.7	8.2	The bricks shall have a minimum average compressive strength for various classes as given in Table 1 of IS 1077: 1992. The compressive strength of any individual bricks shall not fall below the minimum compressive strength specified for the corresponding class of brick by more than 15%.
2	228.98	108.62	24872	197.6	7.9	
3	231.01	107.99	24947	201.3	8.1	
4	230.11	107.54	24746	199.5	8.1	
5	228.16	106.98	24409	194.6	8.0	
Average of 5 bricks					8.1	

AE-1 A.E.E

AE

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TEST REPORT OF CERAMIC TILES

Lab ID	:	**CP-2019-06-17-17** **Date: 26-12-18**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Karaga Mantapa(Ground Floor) and Ramp to Karaga Mantapa at Yelahanka Lake in Ward No:01 of Yelahanka Sub Division.
Agency	:	Sri Sai Manjunath Enterprises Prop. Mahesh.B.P, No:45, Hunasamaranahalli, Bangalore North, Bangalore.
Customer's Reference	:	EE(YNK.D)E-PMT-23/W.O/000087/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	21-12-18
Sample Type/ Size	:	Ceramic tiles (300X300)mm
Reference to BIS codes	:	IS 13630 (part 1) : 2006, IS 15622:2006
Date of test	:	21-12-18

MEASUREMENTS OF LENGTH, WIDTH AND THICKNESS

Number Of Specimen	Length measured at position 5mm from the corner		Breadth measured at position 5mm from the corner		Thickness measured at thickest part, 4 diagonal segment			
	1	2	1	2	1	2	3	4
1	300	300	300	300	12.04	12.01	12.08	12.04
2	300	300	300	300	12.01	12.03	12.01	12.01
3	300	300	300	300	12.03	12.01	12.03	12.03
4	300	300	300	300	12.06	12.05	12.08	12.06
5	300	300	300	300	12.08	12.01	12.05	12.08
6	300	300	300	300	12.03	12.07	12.03	12.07
7	300	300	300	300	12.01	12.01	12.01	12.01
8	300	300	300	300	12.02	12.01	12.04	12.01
9	300	300	300	300	12.04	12.04	12.02	12.04
10	300	300	300	300	12.04	12.01	12.05	12.04
Average	300		300		12.04			

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CEMENT CONCRETE PRECAST CONCRETE BLOCKS FOR PAVING

Lab ID	:	**CP-2019-06-17-17**	**Date: 31-12-18**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.	
Address	:	Yelahanka Sub Division, BBMP, Bangalore.	
Project Name	:	Construction of Karaga Mantapa(Ground Floor) and Ramp to Karaga Mantapa at Yelahanka Lake in Ward No:01 of Yelahanka Sub Division.	
Agency	:	Sri Sai Manjunath Enterprises Prop. Mahesh.B.P, No:45, Hunasamaranahalli, Bangalore North, Bangalore.	
Customer Reference	:	EE(YNK.D)E-PMT-23/W.O/000087/2018-19	
Source of Sample	:	Sample supplied by Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	27-12-18	
Sample Type/ Size	:	Precast concrete blocks for paving	
Reference to BIS codes	:	IS 15658:2006	
Date of test	:	27-12-18	

1.Compressive Strength

Sl.No.	Dimension (mm)			Compressive Strength	Average
	L	B	T	(N/mm^2)	(N/mm^2)
1	197.22	159.88	75.99	30.5	30.4
2	198.48	159.64	75.25	30.8	
3	199.54	159.54	75.48	28.5	
4	197.68	159.22	75.55	30.5	
5	198.11	159.87	75.32	31.8	
6	198.18	160.02	75.11	30.4	
7	198.45	158.99	75.98	30.2	
8	197.22	159.22	75.12	30.8	

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2. Water Absorption

Sl.No.	Wet Weight	Dry weight	Thickness	Water Absorption (%)	Average (%)
1	4.987	4.828	75.85	3.29	3.64
2	4.898	4.721	75.22	3.75	
3	4.988	4.802	75.44	3.87	

Note:
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Authorized Signatory
Technical Manager

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TEST REPORT ON PHYSICAL REQUIREMENTS OF SOLID CONCRETE BLOCKS

Lab ID	:	**CP-2019-06-17-17** **Date: 13-12-18**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Karaga Mantapa(Ground Floor) and Ramp to Karaga Mantapa at Yelahanka Lake in Ward No:01 of Yelahanka Sub Division.
Agency	:	Sri Sai Manjunath Enterprises Prop. Mahesh.B.P, No:45, Hunasamaranahalli, Bangalore North, Bangalore.
Customer's Reference	:	EE(YNK.D)E-PMT-23/W.O/000087/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	10-12-18
Sample Type/Size	:	Solid concrete blocks size (400X150X200)mm
Reference to BIS codes	:	IS : 2185 (Part 1) : 2005(RA 2010) Concrete Masonry Specification Part 1:Hollow and Solid Concrete Blocks (Dimensions -Annex-B, Clause 9.2 and 10 , Block density Annex - C Clause 9.3 and10, Compressive strength Annex -D Clause 9.4 and 10, Water absorption Annex -E Clause 9.5 and 10)
Date of test	:	10-12-18

BLOCK DENSITY:

Sl. No.	Measurement of overall Dimensions of Individual Blocks			Overall Volume of the Block in Cubic Centimetres	Weight of Oven Dried Block in Kilograms to the nearest 10 Gram	Block Density in Kg/cum*10^6	Avg.Block Density in (Kg/cum)	As per IS 2185(Part 1) :2005 (RA 2010)
	Length	Breadth	Height					
	mm	mm	mm	(Cm^3)	Kg	Kg/m^3	Kg/m^3	
1	402	151	202	12262	34.150	2785.1	2793.2	Not less than 1800Kg/m^3
2	401	150	201	12090	34.190	2827.9		
3	402	152	202	12343	34.150	2766.7		

AE-1 A.E.E AE

WATER ABSORPTION:

Sl. No.	Wet weight after water absorption	Dry weight (Oven dry)	Water Absorption	Avg.Water Absorption	As per IS 2185(Part 1):2005 (RA 2010)
	kg	kg	%	%	
1	25.780	24.610	4.75	4.52	Shall not be more than 10% by mass
2	25.890	24.810	4.35		
3	25.850	24.750	4.44		

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2019-06-17-17** **Date: 06-12-18**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Karaga Mantapa(Ground Floor) and Ramp to Karaga Mantapa at Yelahanka Lake in Ward No:01 of Yelahanka
Agency	:	Sri Sai Manjunath Enterprises Prop. Mahesh.B.P, No:45, Hunasamaranahalli, Bangalore North, Bangalore.
Customer's Reference	:	EE(YNK.D)E-PMT-23/W.O/000087/2018-19
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	03-12-18
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	03-12-18

A.E.E

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : **15000** **grams**

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	751	751	5.0	95.0	90-100
3	20 mm	6598	7349	49.0	51.0	30-70
4	10 mm	4751	12100	80.7	19.3	10-35
5	4.75 mm	2593	14693	98.0	2.0	0-5
6	Pan	307	15000	100.0	0	---

CIVIL Pro Sig..... Date..... BANGALORE

Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	CP-2019-06-17-17 **Date: 06-12-18**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Karaga Mantapa(Ground Floor) and Ramp to Karaga Mantapa at Yelahanka Lake in Ward No:01 of Yelahanka Sub Division.
Agency	:	Sri Sai Manjunath Enterprises Prop. Mahesh.B.P, No:45, Hunasamaranahalli, Bangalore North, Bangalore.
Customer's Reference	:	EE(YNK.D)E-PMT-23/W.O/000087/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	03-12-18
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	04-12-18
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	2.1	–
2	Finess by Air permeablity method (m^2/kg,Min)	284.5	225m^2/kg, Min
3	Density (gm/cc)	3.13	–
4	Standard Consistency (%)	0.28	Not specified
5	Initial Setting time	180 minutes	Not less than 30 minutes
6	Final Setting time	260 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1mm	Not more than 10 mm

A.E.E

Note:

The results pertain to the samples received and tested.

All information furnished by Customer/Representative

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Authorized Signatory
Technical Manager

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2019-06-17-17** **Date: 01-01-19**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Karaga Mantapa(Ground Floor) and Ramp to Karaga Mantapa at Yelahanka Lake in Ward No:01 of Yelahanka Sub Division.
Agency	:	Sri Sai Manjunath Enterprises Prop. Mahesh.B.P, No:45, Hunasamaranahalli, Bangalore North, Bangalore.
Customer's Reference	:	EE(YNK.D)E-PMT-23/W.O/000087/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	03-12-18
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	04-12-18
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	29.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.5N/mm^2	Not less than 37 N/mm^2
3	28 Days	56.0N/mm^2	Not less than 53 N/mm^2

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R RUDRAPRASAD
Authorized Signatory
Technical Manager

****End of Report****

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilprooxperts@gmail.com
HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL| GEO TECHNICAL| PROJECT MANAGEMENT|

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2019-06-17-17** **Date: 05-12-18**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Karaga Mantapa(Ground Floor) and Ramp to Karaga Mantapa at Yelahanka Lake in Ward No:01 of Yelahanka Sub Division.
Agency	:	Sri Sai Manjunath Enterprises Prop. Mahesh.B.P, No:45, Hunasamaranahalli, Bangalore North, Bangalore.
Customer Reference	:	EE(YNK.D)E-PMT-23/W.O/000087/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	03-12-18
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	03-12-18

AE-I A.E.E AE

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	235	235	4.7	95.3	90-100
3	10 mm	2470	2705	54.1	45.9	25-55
4	4.75 mm	2133	4838	96.8	3.2	0-10
5	Pan	162	5000	100	0	–

CIVIL Pro Sig Date BANGALORE

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TEST REPORT OF FINE AGGREGATE

Lab ID	:	**CP-2019-06-17-17** **Date: 05-12-18**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Karaga Mantapa(Ground Floor) and Ramp to Karaga Mantapa at Yelahanka Lake in Ward No:01 of Yelahanka Sub Division.
Agency	:	Sri Sai Manjunath Enterprises Prop. Mahesh.B.P, No:45, Hunasamaranahalli, Bangalore North, Bangalore.
Customer's Reference	:	EE(YNK.D)E-PMT-23/W.O/000087/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	03-12-18
Sample Type	:	Fine Aggregate
Reference to BIS codes	:	IS 383 : 2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1, 3) RA2012 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
Date of test	:	03-12-18
Total weight taken	:	1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	32	32	3.2	96.8	90-100	90-100	90-100	95-100
3	2.36 mm	188	220	22.0	78.0	60-95	75-100	85-100	95-100
4	1.18 mm	195	415	41.5	58.5	30-70	55-90	75-100	90-100
5	600 micron	219	634	63.4	36.6	15-34	35-59	60-79	80-100
6	300 micron	193	827	82.7	17.3	5-20	8-30	12-40	15-50
7	150 micron	121	948	94.8	5.2	0-10	0-10	0-10	0-15
8	Pan	52	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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